Notice of Allowability	Application No.	Applicant(s)
	10/711,637	CHEN ET AL.
	Examiner	Art Unit
	Tsz K. Chiu	2822
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>4-23-06</u> .		
2. X The allowed claim(s) is/are <u>1-14,31 and 32</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	5 Notice of Informal D	stant Application (DTO 152)
 Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) 	6. ☐ Interview Summary	ratent Application (PTO-152)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat	e
Paper No./Mail Date	<u>_</u>	
Examiner's Comment Regarding Requirement for Deposit of Biological Material		ent of Reasons for Allowance

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DETAILED ACTION

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: Wu and Chen fail to disclose the invention. Wu discloses a gate stack (8, 28, For example Fig. 11) overlying a single-crystal semiconductor region of a substrate consists essentially of silicon (2, For example Fig. 11), said single-crystal semiconductor region having a first composition, a pair of first spacers (14, For example Fig. 11) disposed over opposite sidewalls of said gate stack (8,28, For example Fig. 11), a pair of a source and drain region (20a, For example Fig. 11) at least partly disposed in respective ones of said semiconductor alloy regions (2, For example Fig. 11), said source and said drain region (20a, For example Fig. 11) each spaced a second distance from said gate stack by a first spacer (14, For example Fig. 11) of said pair of first spacers.

Chen discloses a semiconductor alloy regions are at least partly disposed in trenches disposed in said single-crystal semiconductor regions (21, For example Fig. 1) consisting essentially of a single-crystal semiconductor alloy (14, For example Fig. 1) having a second composition different from said first composition (18, For example Fig. 1), said semiconductor alloy regions consist essentially of silicon germanium (14, For example Fig. 1) disposed on opposite sides of said gate stack (10, For example Fig. 1).

However both Wu and Chen did not discloses or able to combine with a motivation of a second distance from said gate of said second distance being different from and independent from said first distance, said second distance is greater than said

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first distance said second distance being at least partly determined by spacing of said first spacers from said sidewalls of said gate.

Therefore, Claim 1 -14 and 31-32 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tsz K. Chiu whose telephone number is 517-272-8656. The examiner can normally be reached on 0800 to 1700.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra V. Smith can be reached on 571-272-2429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Zandra V. Smith
Supervisory Patent Examiner:
10 July 2000

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